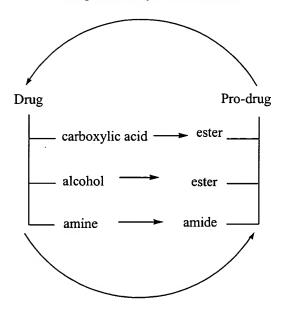
#### Endogenous enzymes/metabolism



**CHEMICAL SYNTHESIS** 

Fig. 1

$$R = CH_3 = acetate$$
  
=  $CH_3 - (CH_2)_2 = butyrate$   
=  $CH_3 - (CH_2)_4 = hexanoate$ 

#### In Vitro Release of Florfenicol Derivatives

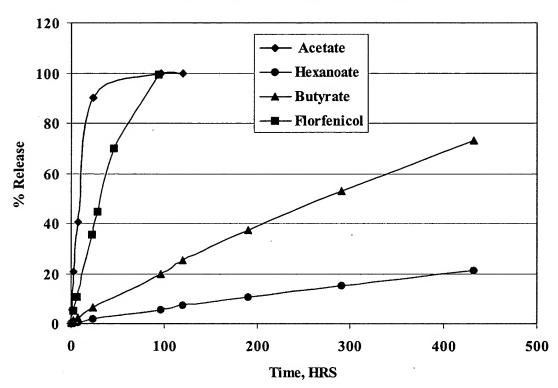


Fig. 3

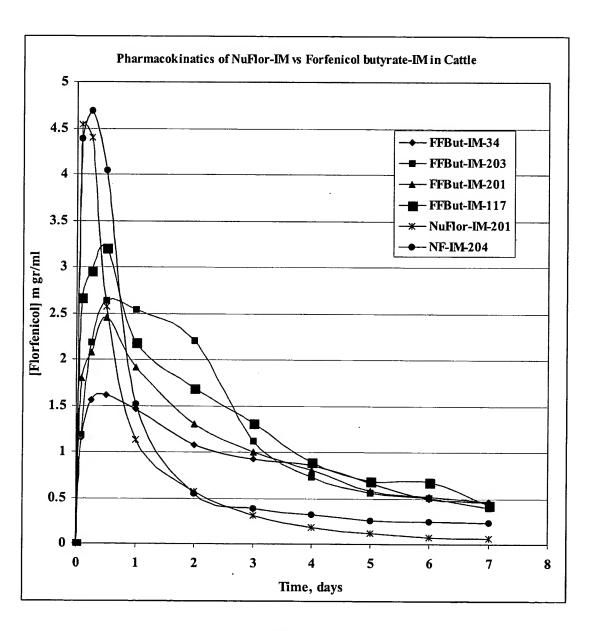
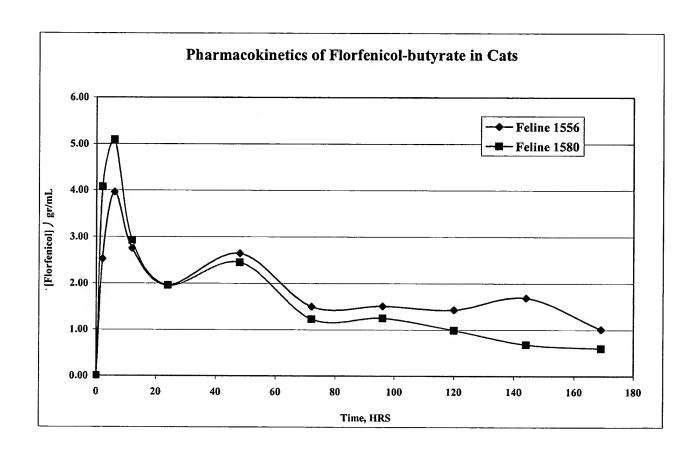


Fig. 4



*Fig. 5* 

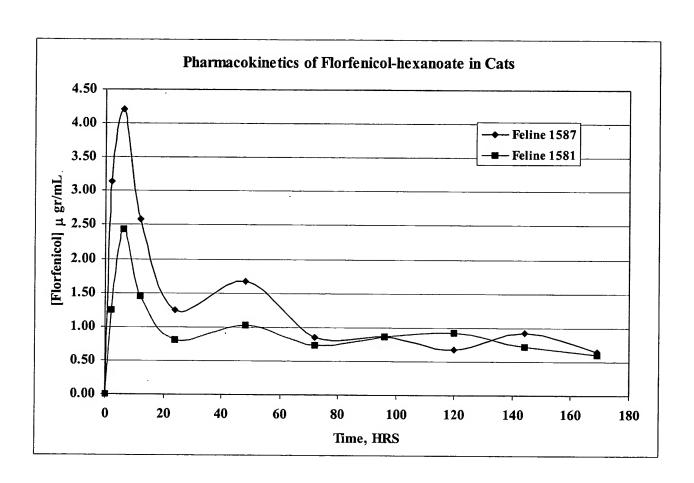


Fig. 6

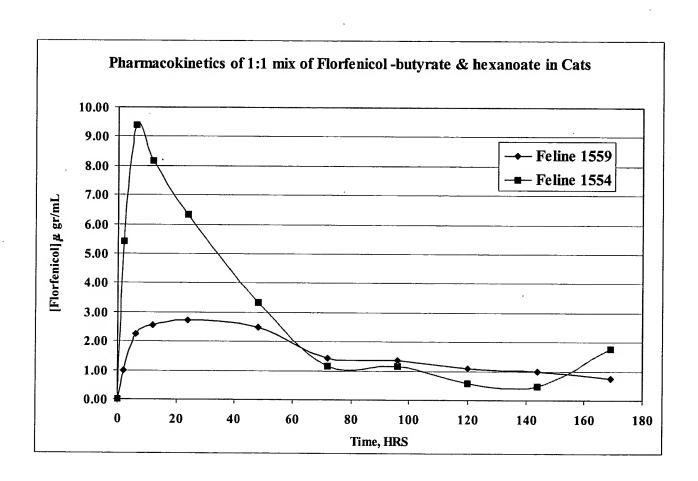


Fig. 7

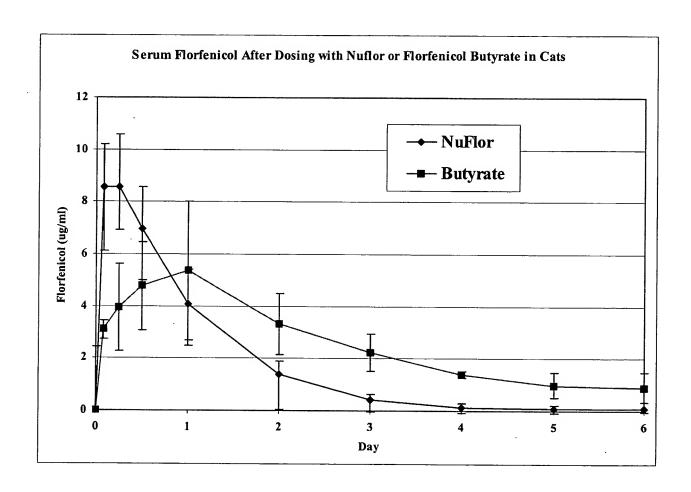


Fig. 8

FLORFENICOL SUCCINATE

# COMPOSITIONS CONTAINING PRODRUGS OF FLORFENICOL AND METHODS OF USE By Murthy, et al.; Atty. Docket No. 051091-2001

11/11

Florfenicol Propionate: R= CH<sub>3</sub>CH<sub>2</sub>Florfenicol Pentanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>Florfenicol Heptanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>Florfenicol Octanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>Florfenicol Nanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>7</sub>Florfenicol Decanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>8</sub>Florfenicol Undecanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>9</sub>Florfenicol Dodecanoate: R= CH<sub>3</sub>(CH<sub>2</sub>)<sub>10</sub>-